

Expertise

# Logistics



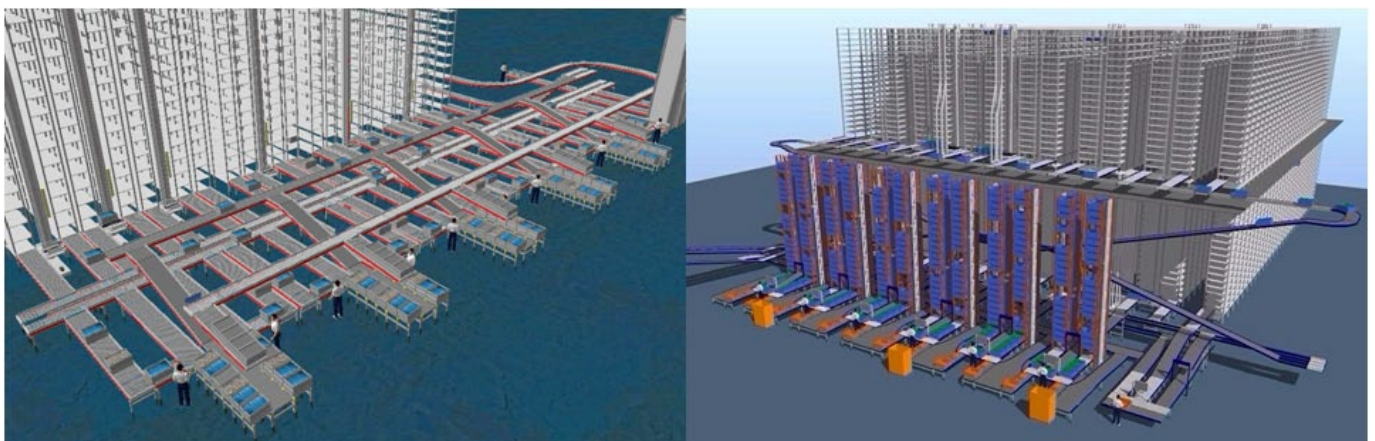
## From Planning to Operation

The application fields of simulation based methods and tools in logistics range from feasibility studies in a very early stage over the support of rough and detailed planning to the realisation and start-up phase of logistic systems.

Using simulation technologies can give additional certainty in logistic projects and save start-up time, as all relevant processes can be weighted in their interaction and coordinated.

## Examples of project topics

- Planning simulation
- Efficiency rating , e.g. automatic small-parts warehouse, high rack warehouse
- Validation of different variants/performances of materials handling equipment
- Evaluation of the optimized number of trolleys for electrical trolley or driverless transport systems
- Evaluation of warehouse capacity
- Validation of buffer sizes
- Determination of the maximum system performance with different order structures
- Minimisation of cycle times
- Evaluation of different material flow control strategies, e.g. for disposition of vehicles
- Evaluation of strategies for order dispatching
- Comparison of different strategies for storage and stock removal
- Analysis of different order picking strategies, e.g. one-level vs. two-level
- Estimation of optimized workforce under consideration of
  - improved positioning of articles
  - modification of stock shelving
- Analysis of special breakdown scenarios



Examples of simulation models of logistic systems

## Customers

### System integrators

BSS  
Dematic  
Hoermann Logistik  
Klinkhammer  
Krones  
MLOG  
ROFA  
Siemens  
SSI Schaefer Noell  
Stoecklin  
TGW  
Vanderlande Industries  
Viastore Systems  
Witron

### Logistic planner

Log5Group  
IBH  
IndustrieHansa  
integral Logistics  
i+o Industrieplanung  
LCE  
Metroplan  
P+L Hofbauer  
Pierau Planung  
Suisse Plan  
Vialog  
Vollack

### Operating Companies

Beiersdorf  
DHL  
EDEKA  
Emmi  
FedEx  
Fresenius Medical Care  
Geberit  
Gerolsteiner  
Heidelberger Druck  
Hermes Warehousing  
Hilti  
IKEA  
Ingram Micro  
Kaufland  
Krueger  
Merckle Ratiopharm  
Miele  
Nobilia  
Parker Hannifin  
Playmobil  
Procter & Gamble  
Ravensburger  
Rossmann  
Stihl  
Veltins  
Wesergold  
WMF  
Zentis

## The SimPlan group

We consider ourselves to be a cross-sector full-range supplier with regard to simulation, accompanying you with extensive know-how, experience and modern methods in the optimisation of business processes.

Our services range from process analysis and consulting through material flow and logistics simulation, simulation-based detailed production planning to support with the commissioning of control software. Furthermore we are a neutral distributor of simulation software and we will lend you our support with the selection, training and implementation in your company.

## Why SimPlan?

- Objective and independent analysis
- Detailed knowledge of logistics and production processes with over 25 years project experience
- Sufficient capacities for prompt respond to your questions
- Close cooperation and project integration with high on-site quota
- Development of innovative solutions for the efficient handling of questions

## Where to find us

### SimPlan Group

#### Headquarters

Sophie-Scholl-Platz 6  
63452 Hanau  
Germany

Phone: +49 6181 40296-0  
Fax: +49 6181 40296-19  
Email: [info@SimPlan.de](mailto:info@SimPlan.de)  
Web: [www.SimPlan.de](http://www.SimPlan.de)

#### Branches

Braunschweig • Bremen • Dresden •  
Holzgerlingen • Munich • Regensburg

#### Subsidiary company

SimPlan Integrations GmbH,  
Witten